

## Leidy, Robert

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**From:** Leidy, Robert  
**Sent:** Wednesday, July 23, 2014 8:31 AM  
**To:** Simms, Jeffrey  
**Subject:** RE: SWCA Revised FEIS modeling approach

Thanks much Jeff for the update. Nice that FS and FWS finally were able to see the resources and at the same time discuss the groundwater/surface water issues.

Best,

Rob

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**Robert A. Leidy, Ph.D.**  
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**San Francisco, CA 94105**  
**(415) 972-3463**

**From:** Simms, Jeffrey [mailto:jsimms@blm.gov]  
**Sent:** Tuesday, July 22, 2014 5:30 PM  
**To:** Leidy, Robert  
**Cc:** Lomeli, Ben; Daniel Moore; Marcia Radke  
**Subject:** Re: SWCA Revised FEIS modeling approach

Rob,  
I thought you might want an update on aquatic ecology tours of riparian/wetland resources on the LCNCA.

On June 23, Marcia Radke and I provided a tour for the USFWS at their request. We toured Empire Spring, Cienega Ranch Wetland, stream channel below the cement crossing at the wetland (dead and dying trees and new channel incision in progress due to a lack of soil moisture), Cienega Creek at the Mattie Canyon confluence (Cold Spring Wetland), downstream at the power line stream ford near Fresno Canyon (location with high density of H water umbel) and Empire Pond which has large populations of Chir. L frogs, Gila topminnow as well as desert pupfish and n.m. gartersnake. It went very well. Steve Spangle was there and asked a lot of questions. The tour was cut short due to one of the FWS staff falling and breaking her leg.

The report can be found on the share point for the Rosemont BO consultation (TourReportUSFWS(FNL)).

On July 21, at the behest of the USFWS, BLM provided a tour for the Coronado Forest. Unfortunately, the FS did not assign a FS biologist to the tour (a SWCA consultant was there however). Mindi Vogel (FS Geologist) decided that the tour should focus on hydrology and modeling so the biologist apparently fell through the cracks. Attendees: Angela Barclay (swca Biologist), Steve ?? (usgs - Hydraulic modeler), Don Pool (usgs - GW modeler), Chris Garrett (swca - Hydrologist) Nick Paretti (usgs - Hydologist with some biological background) and Stanley Leake (usgs - GW modeler).

Like the tour for the USFWS we hit a variety of habitat types with a variety of hydrologic/hydraulic/ecologic settings. We toured The mine overlook on HWY 83, Empire Spring, Cienega Ranch Wetland, Cienega Creek stream channel below the cement crossing at the wetland (dead and dying trees and new channel incision in progress due to a lack of soil moisture), Cienega Creek at the Mattie Canyon confluence (Cold Spring Wetland), The USGS stream gage above Wood Canyon, Cienega Creek at the flow monitoring station above Gardner Canyon and the Cinco Wetlands. The tour went well. There was much interest in the conditions and a general pondering of how to address affects to various aquatic settings with changes in GW elevation.

It appears the USGS may be able to help if their is funding and what they are to do is well defined. What ever is done with the modeling and analysis would have to be done in a couple of months (about 8 weeks) from now. Admittedly not much time. There is no write-up on this tour. I'm not sure if I have time for that.

Cheers

On Mon, Jul 21, 2014 at 11:05 AM, Leidy, Robert <[Leidy.Robert@epa.gov](mailto:Leidy.Robert@epa.gov)> wrote:

Ben,

Do you have a copy of the latest SWCA referred to in their Revised FEIS modeling approach? If so, you please forward it to me. Can't seem to get a response from the Forest Service.

Thanks,

Rob

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**From:** Lomeli, Ben [mailto:[blomeli@blm.gov](mailto:blomeli@blm.gov)]

**Sent:** Thursday, June 26, 2014 10:48 AM

**To:** Julia Fonseca; Mark D'Aversa; Simms, Jeffrey R; Leidy, Robert; Shafiqullah, Salek -FS; Simms, Karen M; Viola Hillman; Daniel Moore; Paul Summers; Jean\_Calhoun; Jason Douglas; Marcia Radke; David Murray; Jeanmarie Haney; Jesse Dickinson; Stanley A Leake

**Subject:** Sonoita Area Existing Pumpage

Hi all,

Attached please find a PDF of a 2005 groundwater study quantifying pumpage in the Sonoita area.

This is critical information that should be but has not been included in the Rosemont Mine models. Existing pumpage is likely already having, or will have, some effects on the LCNCA surface water resources, including springs, wetlands and Cienega Creek and its tributaries.

An update of this information would be most appropriate; and it is available. It should help reduce/clarify one of the many "uncertainties" of the models.

When we only have a little bit of water, every little bit matters if we want to truly evaluate additional impacts as required by NEPA. (Good hard look & cumulative impacts).

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*"We do not inherit the Earth from our ancestors, we borrow it from our children."* Native American Proverb.